

INDUSTRY MARKET CONSORTIUM	WIFI			
IEEE STANDARD	802.11	802.11B	802.11A	802.11G
FREQUENCY BAND	2.4 GHZ	2.4 GHZ	5 GHZ	2.4 GHZ
DATA RATE (MBPS)	1 TO 2 Mbps	UP TO 22 Mbps	UP TO 54 Mbps	UP TO 54 Mbps
NON-OVERLAPPING CHANNELS	3	3	4 + 4	3
MODULATION TYPE	FHSS	DSSS	OFDM	OFDM
BOM COST TO MANUFACTURER	N/A \$300 IN 1998	\$25 2004 EST. \$20	\$35 2004 EST. \$25	\$35 2004 EST. \$25
TYPICAL RANGE	50 METERS	50 METERS	20 METERS	50 METERS
CURRENT DRAIN (mA)	<350mA	<350mA	<350mA	<350mA

FIG. 1

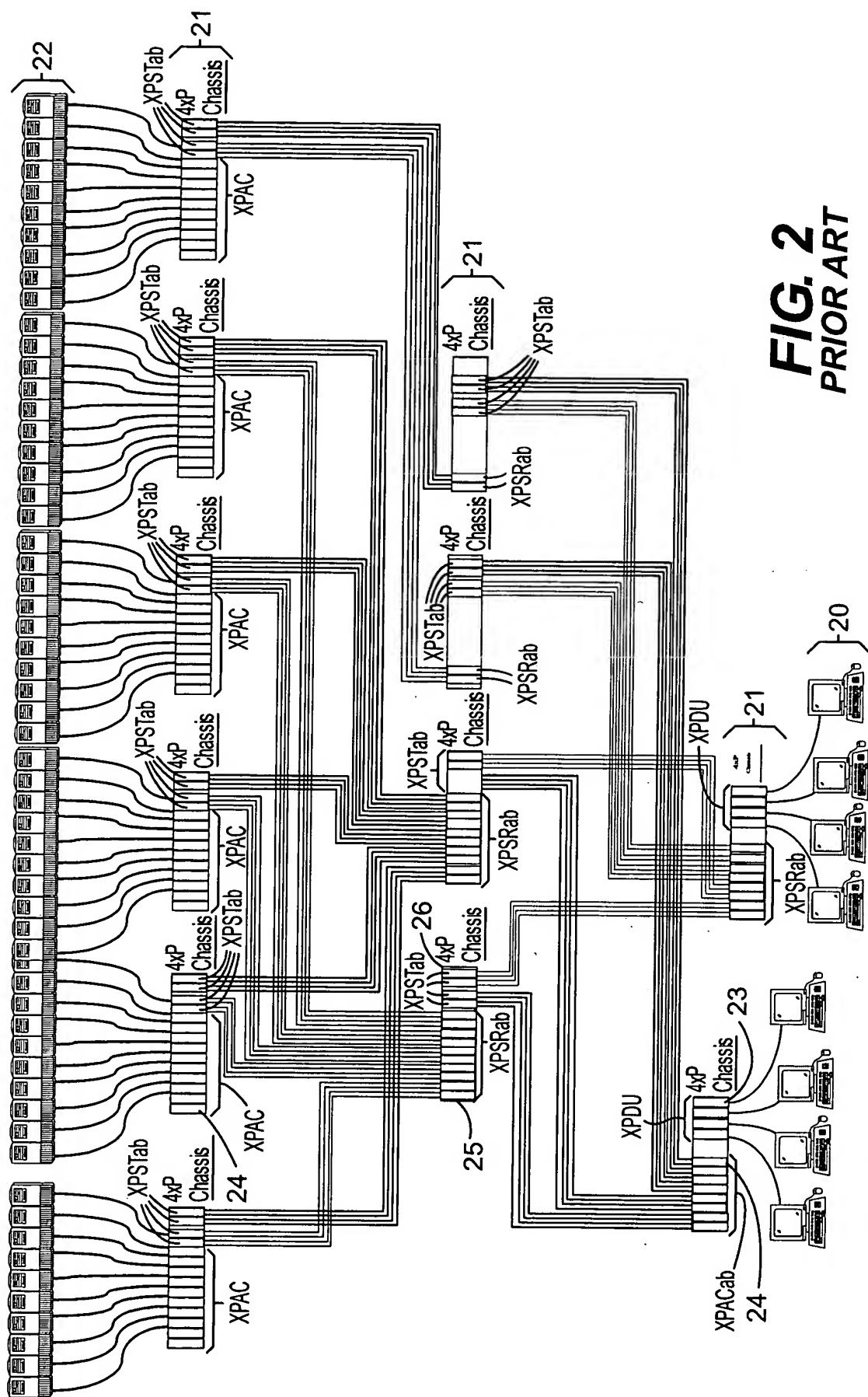


FIG. 2
PRIOR ART

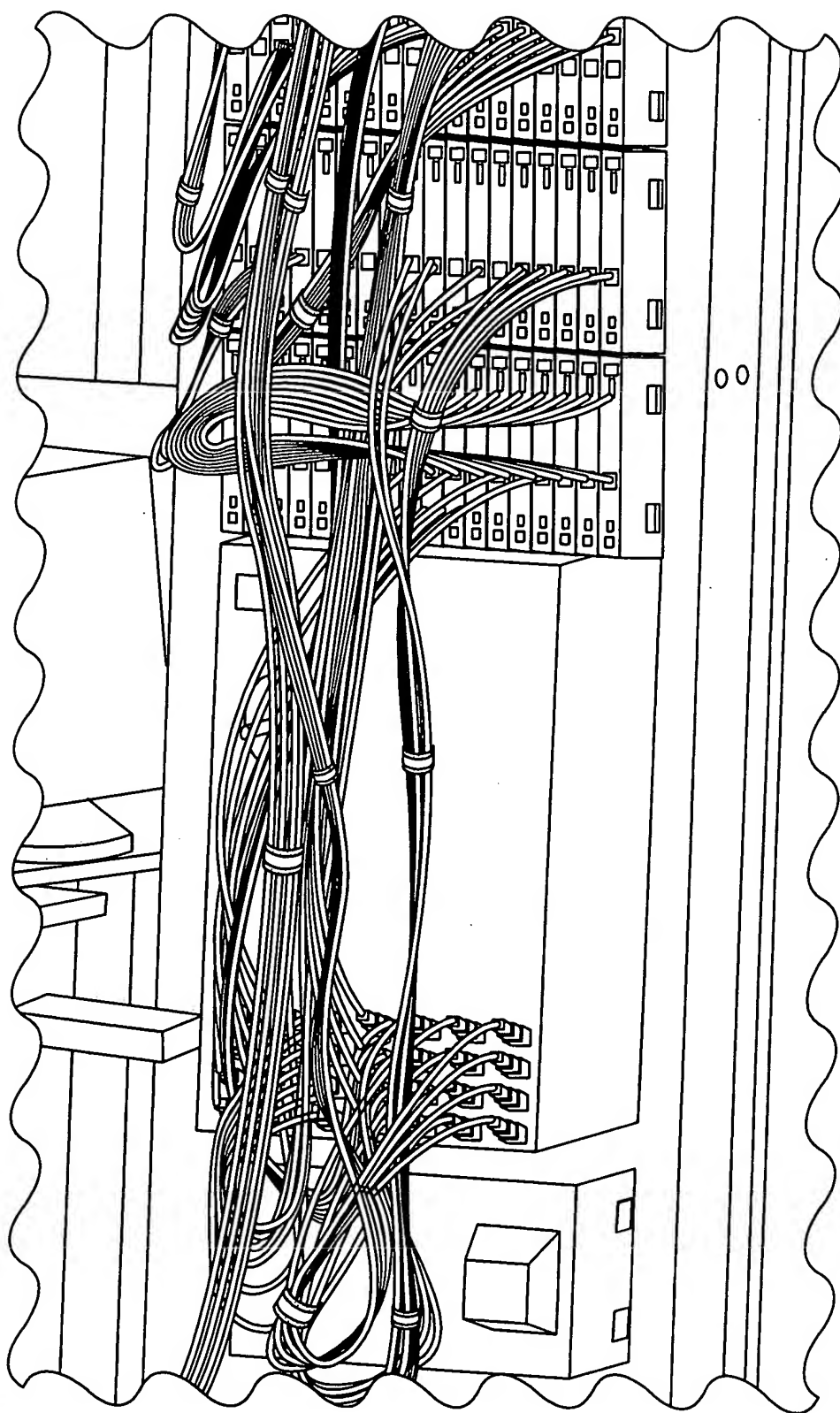
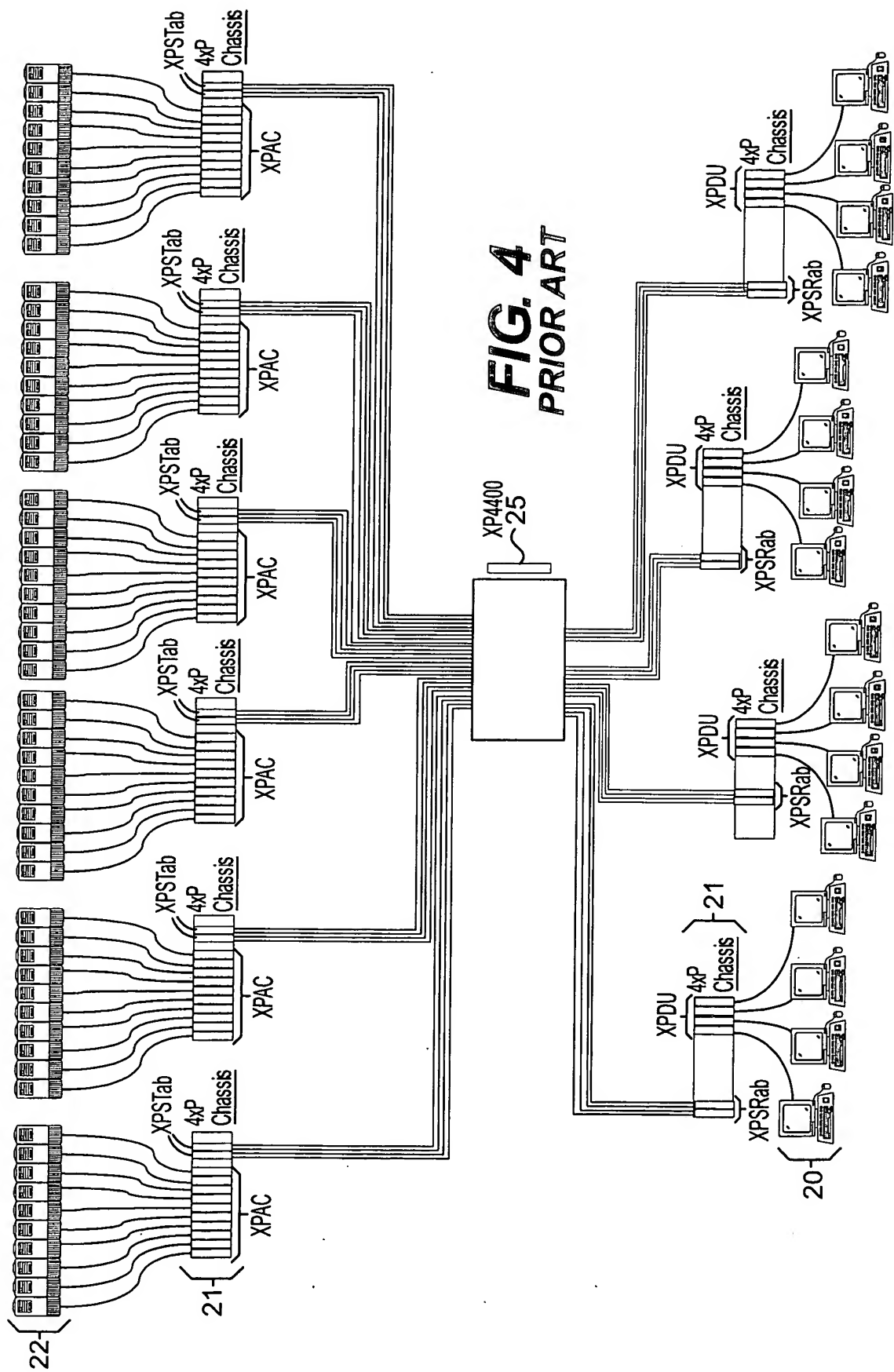


FIG. 3
PRIOR ART



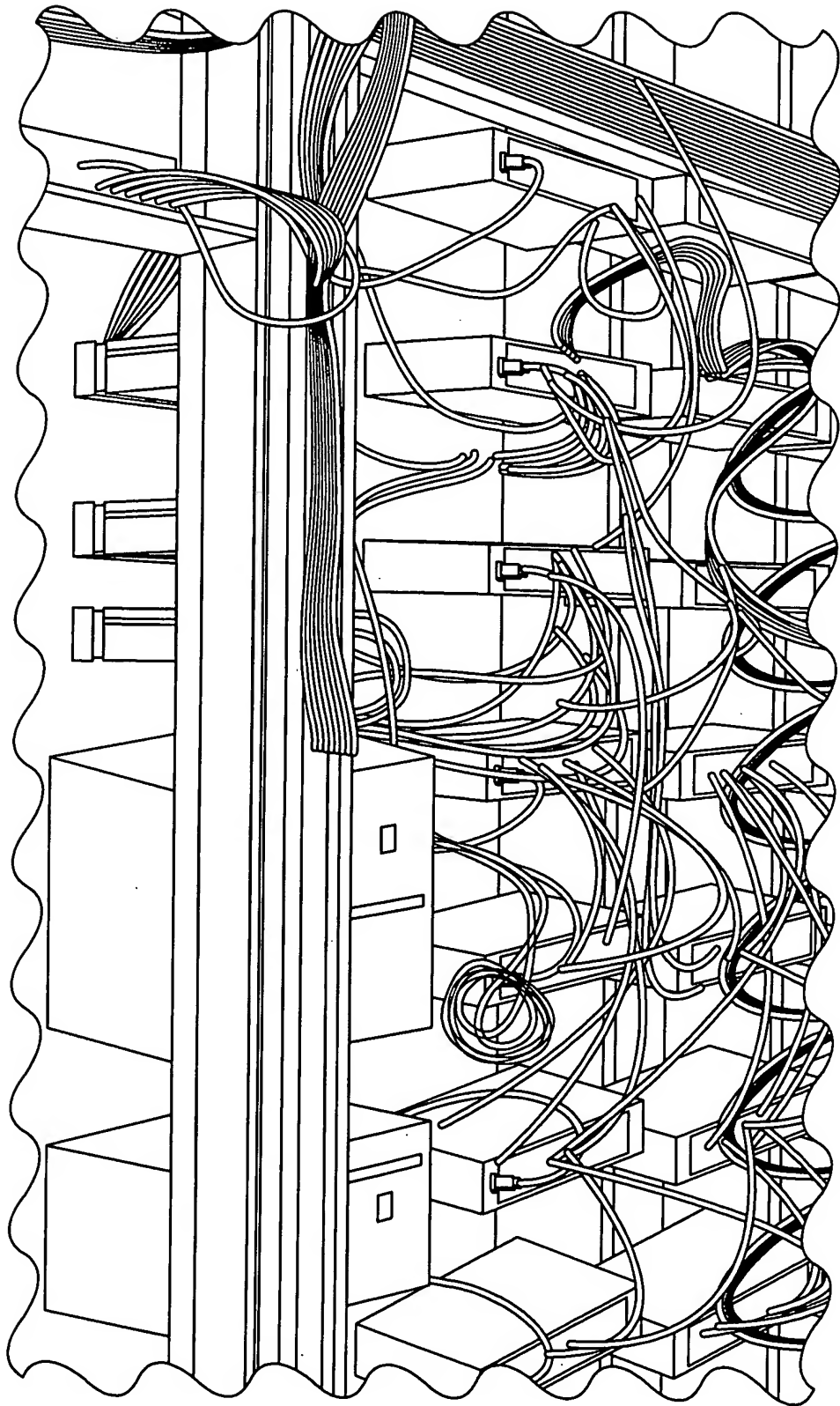


FIG. 5
PRIOR ART

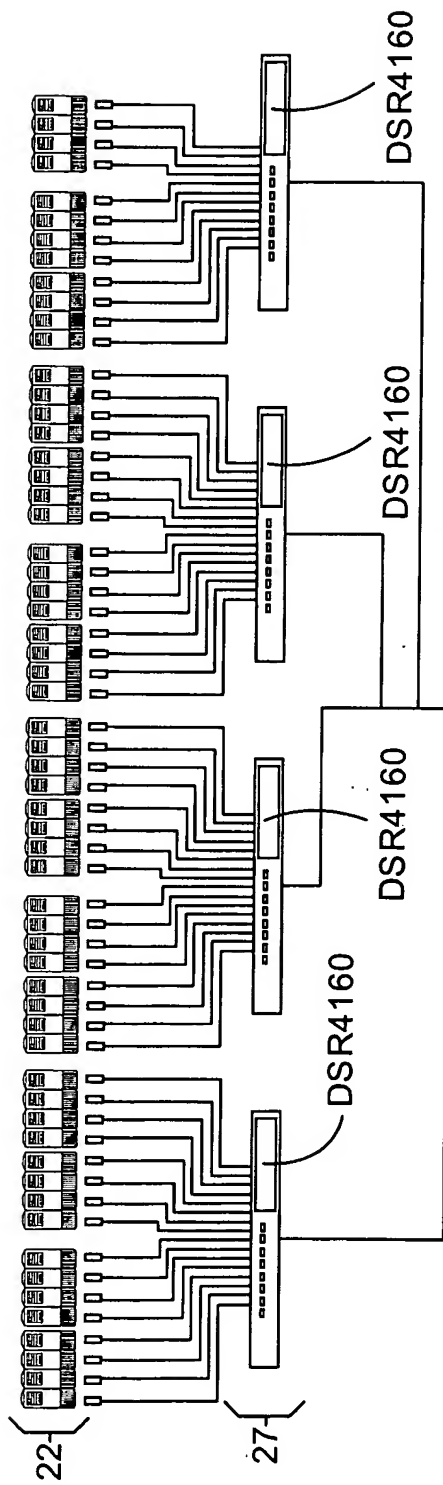
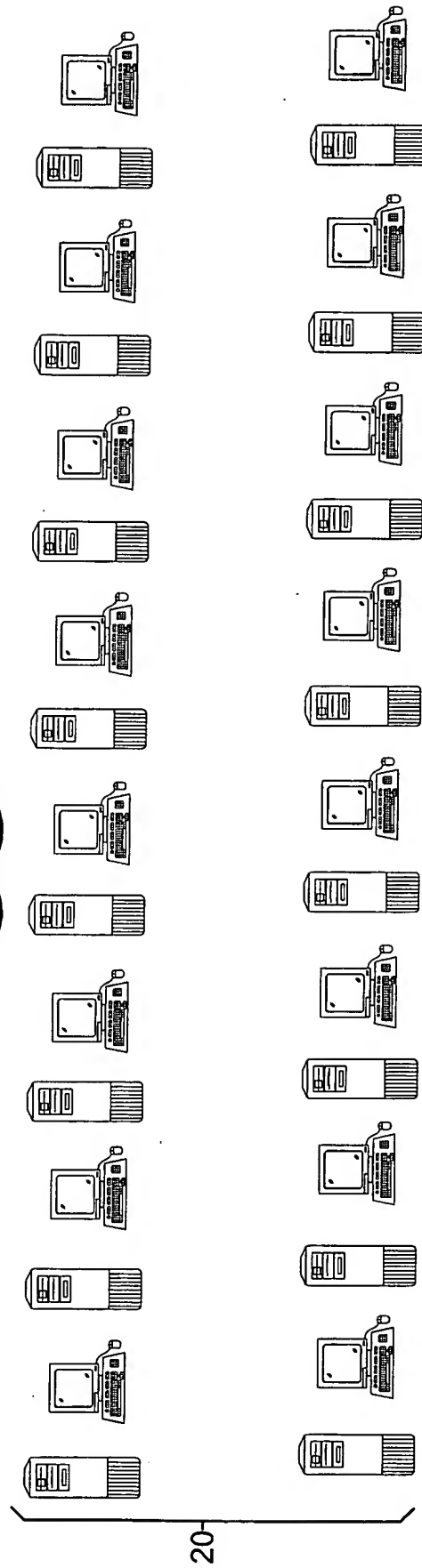


FIG. 6
PRIOR ART



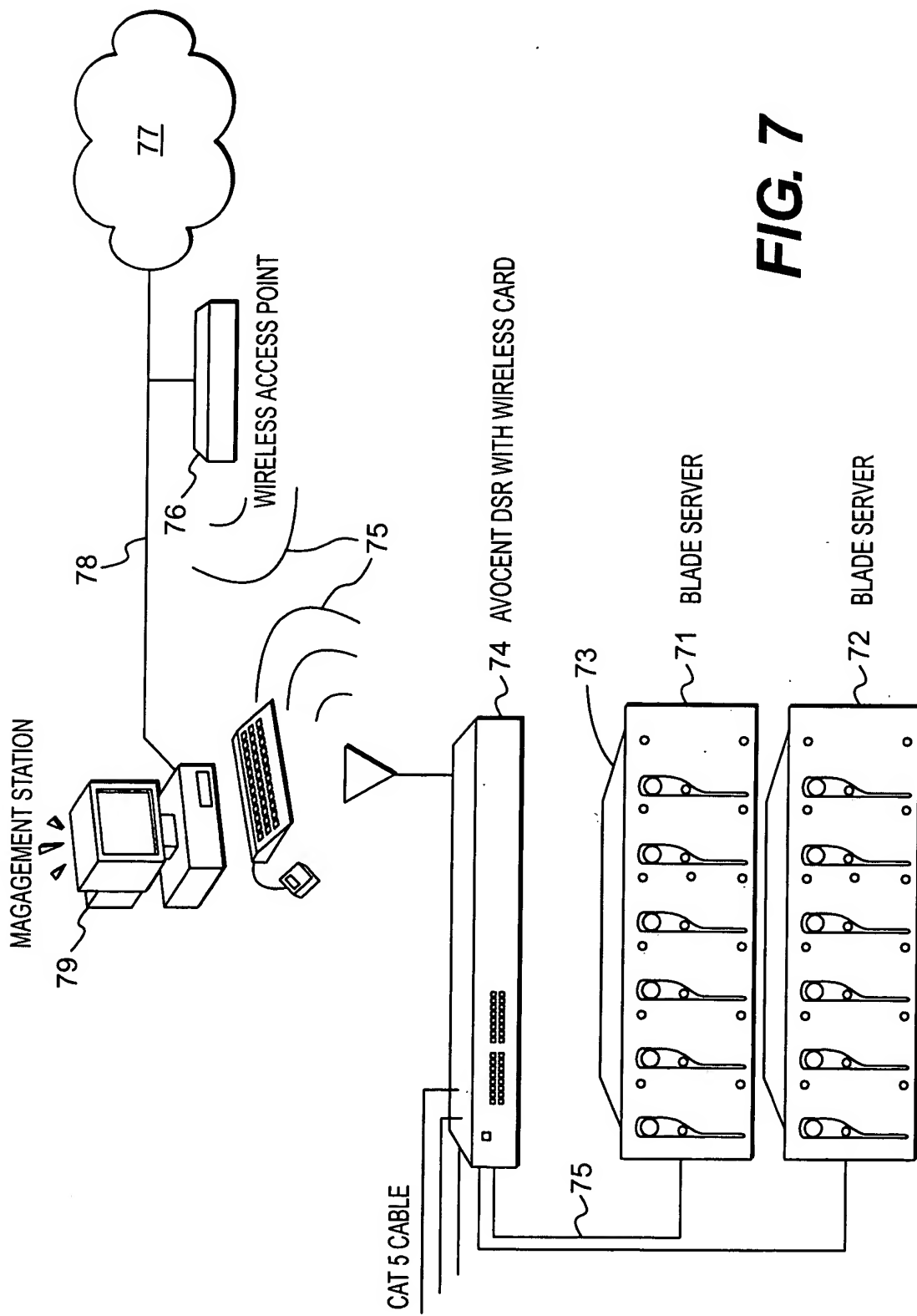


FIG. 7

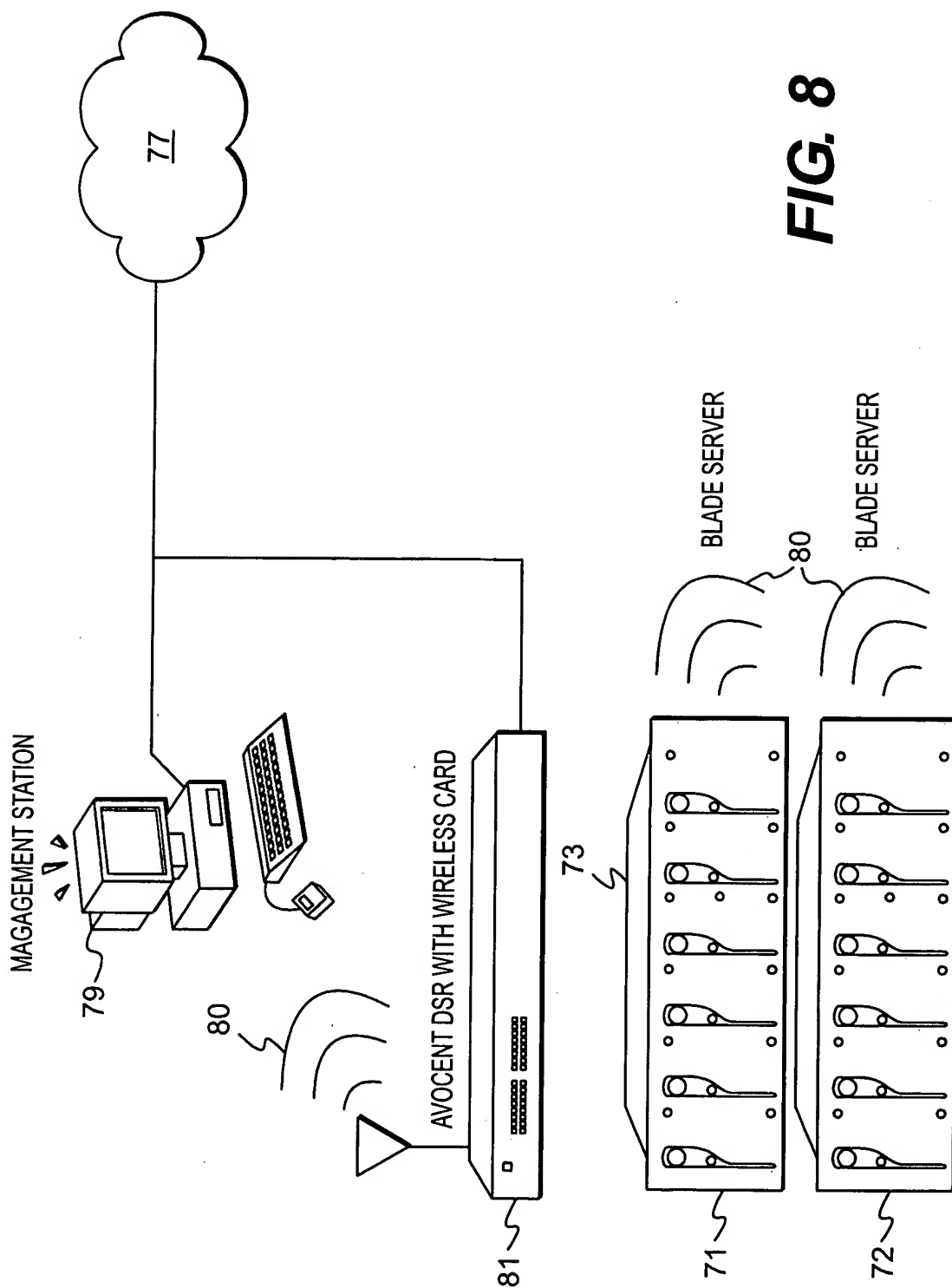


FIG. 8

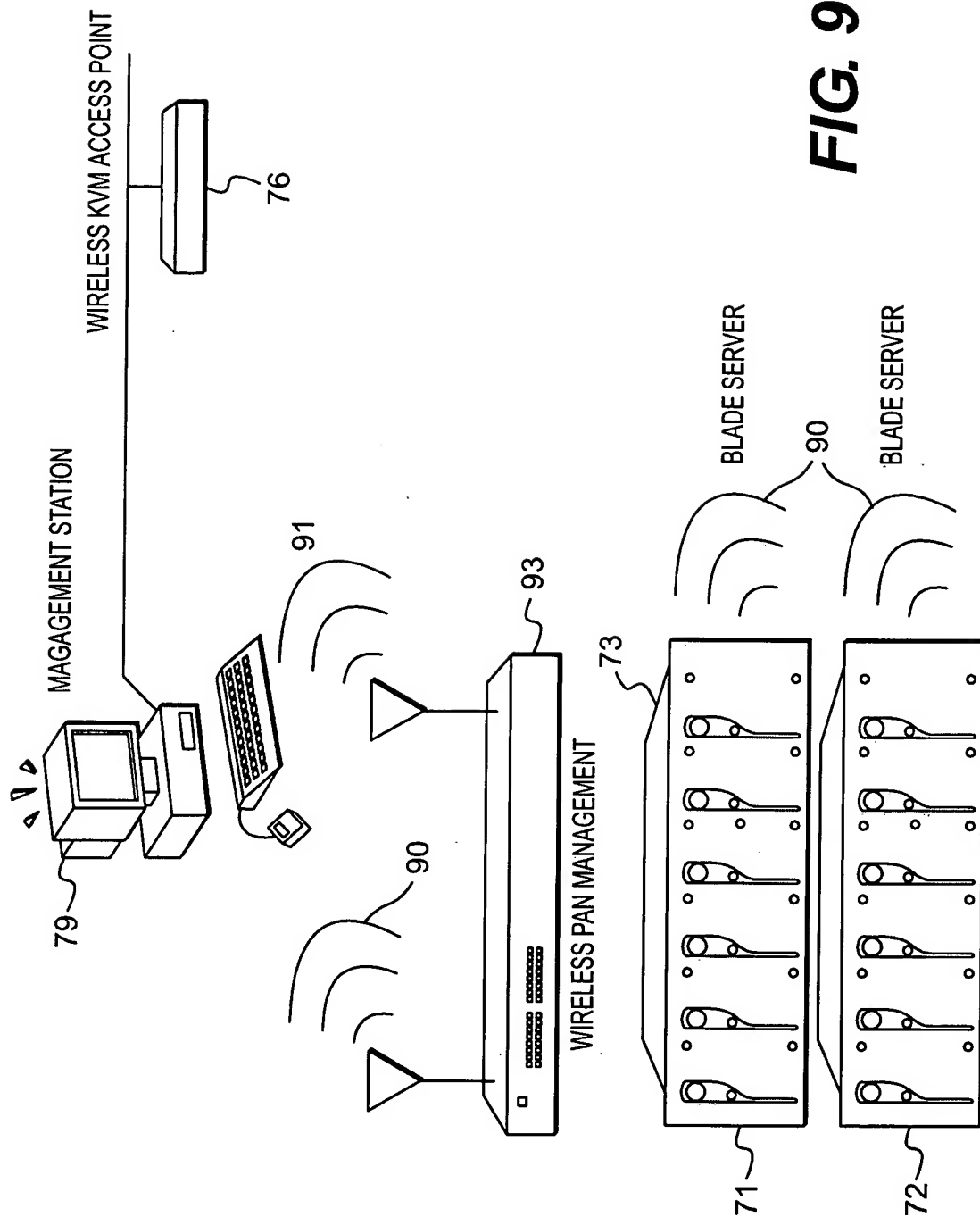


FIG. 9

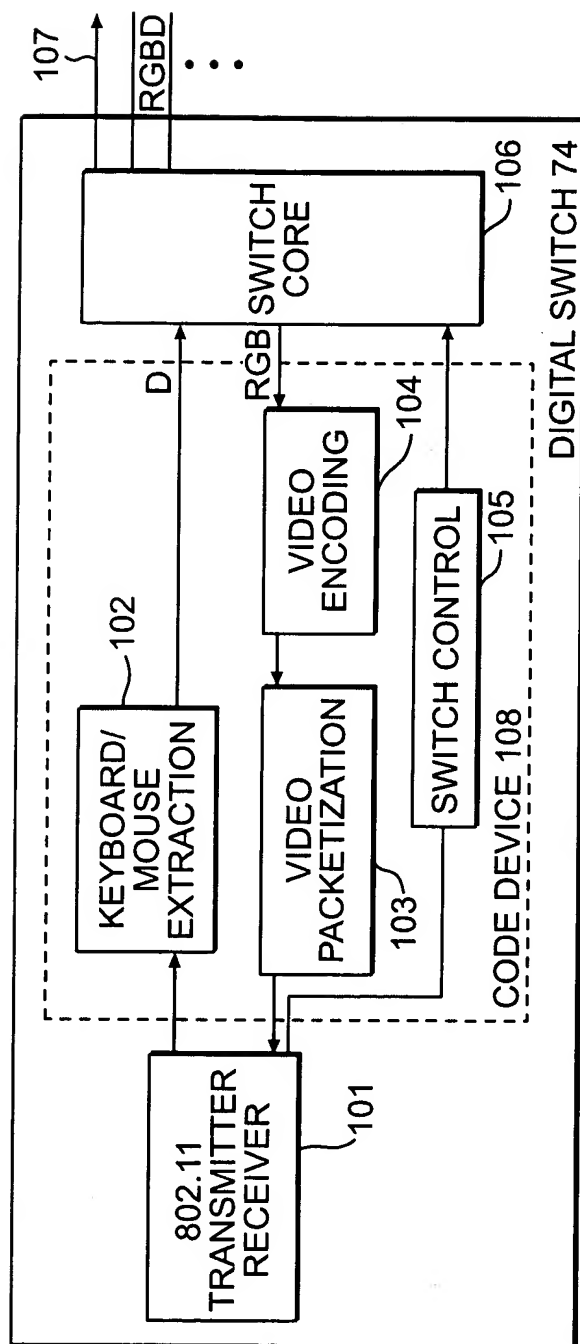


FIG. 10

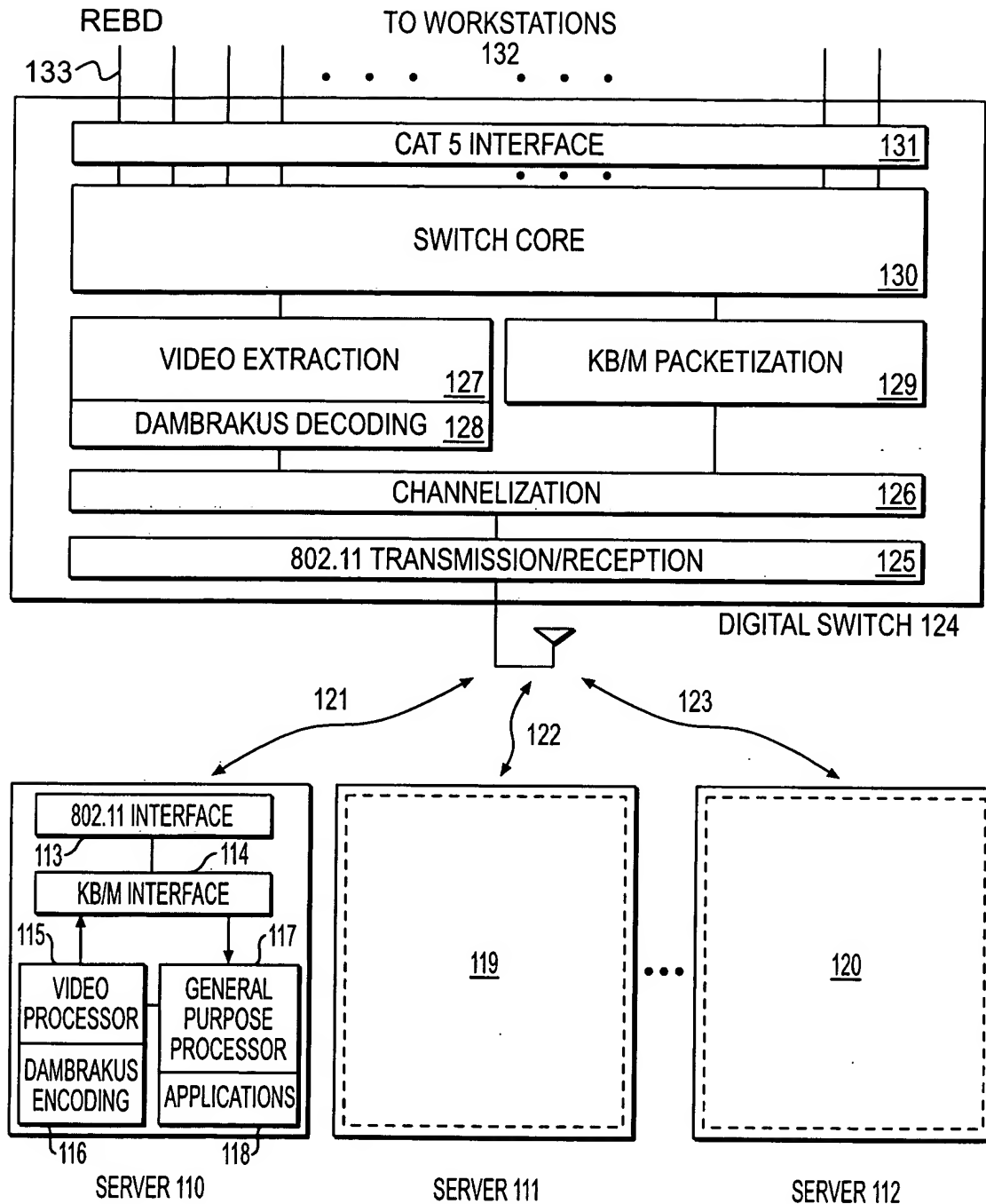
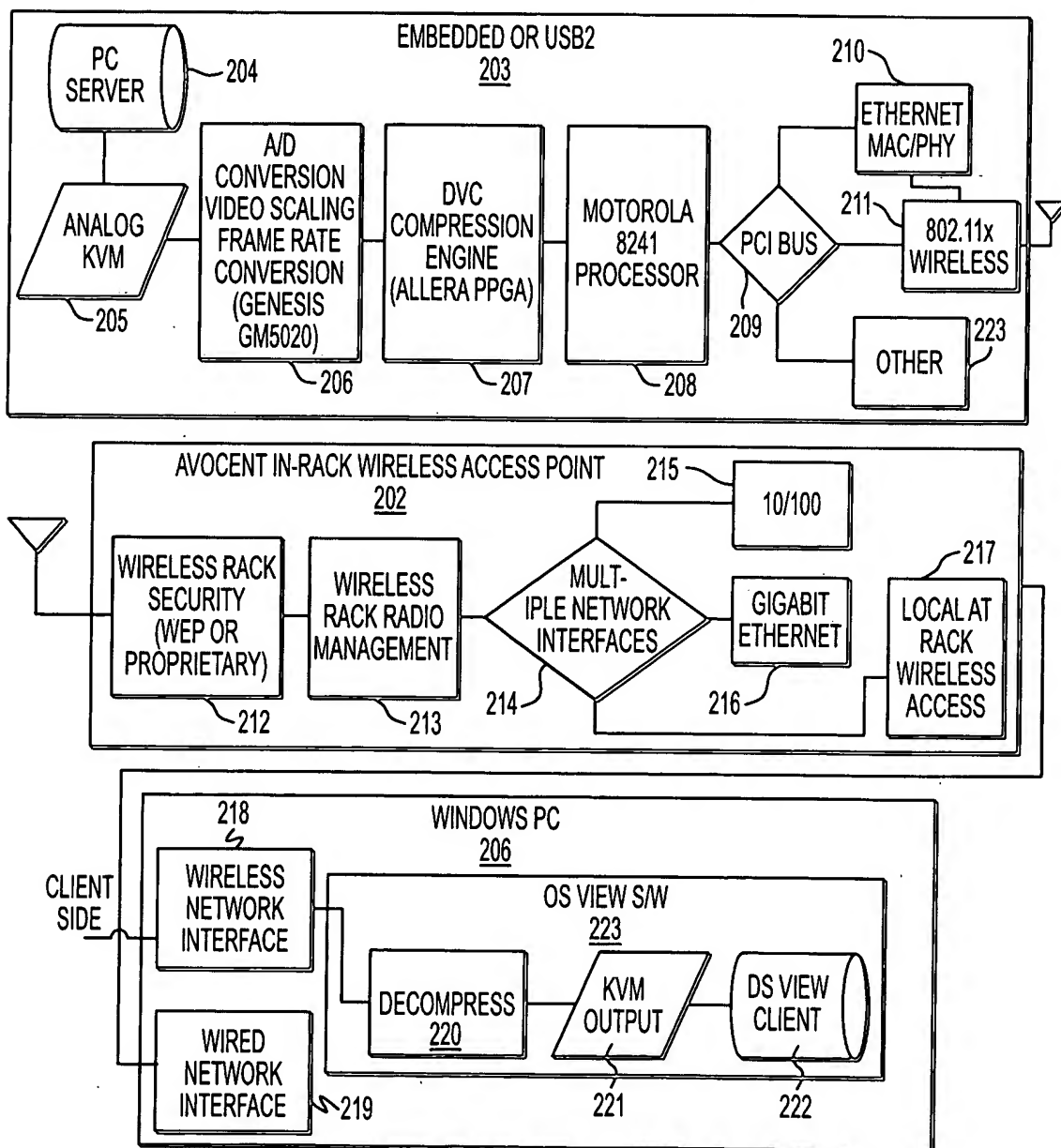
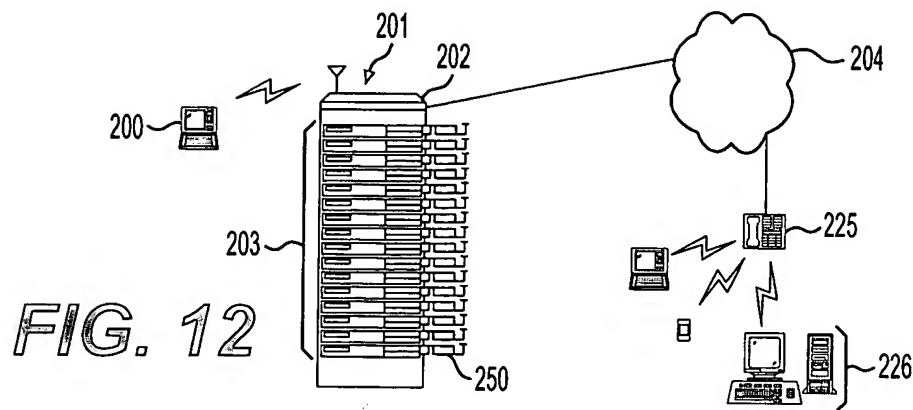


FIG. 11



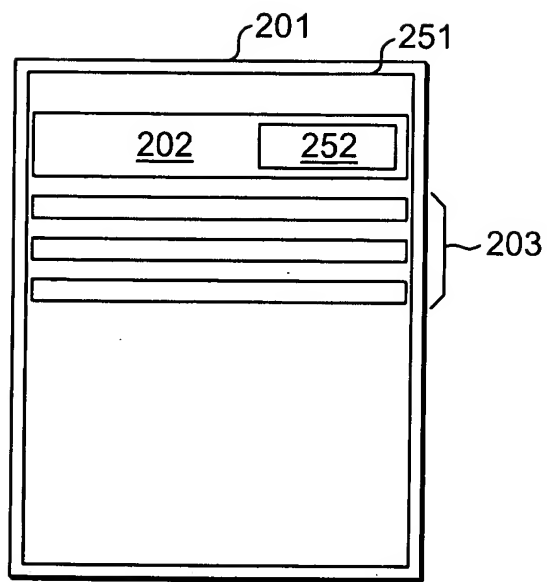


FIG. 14

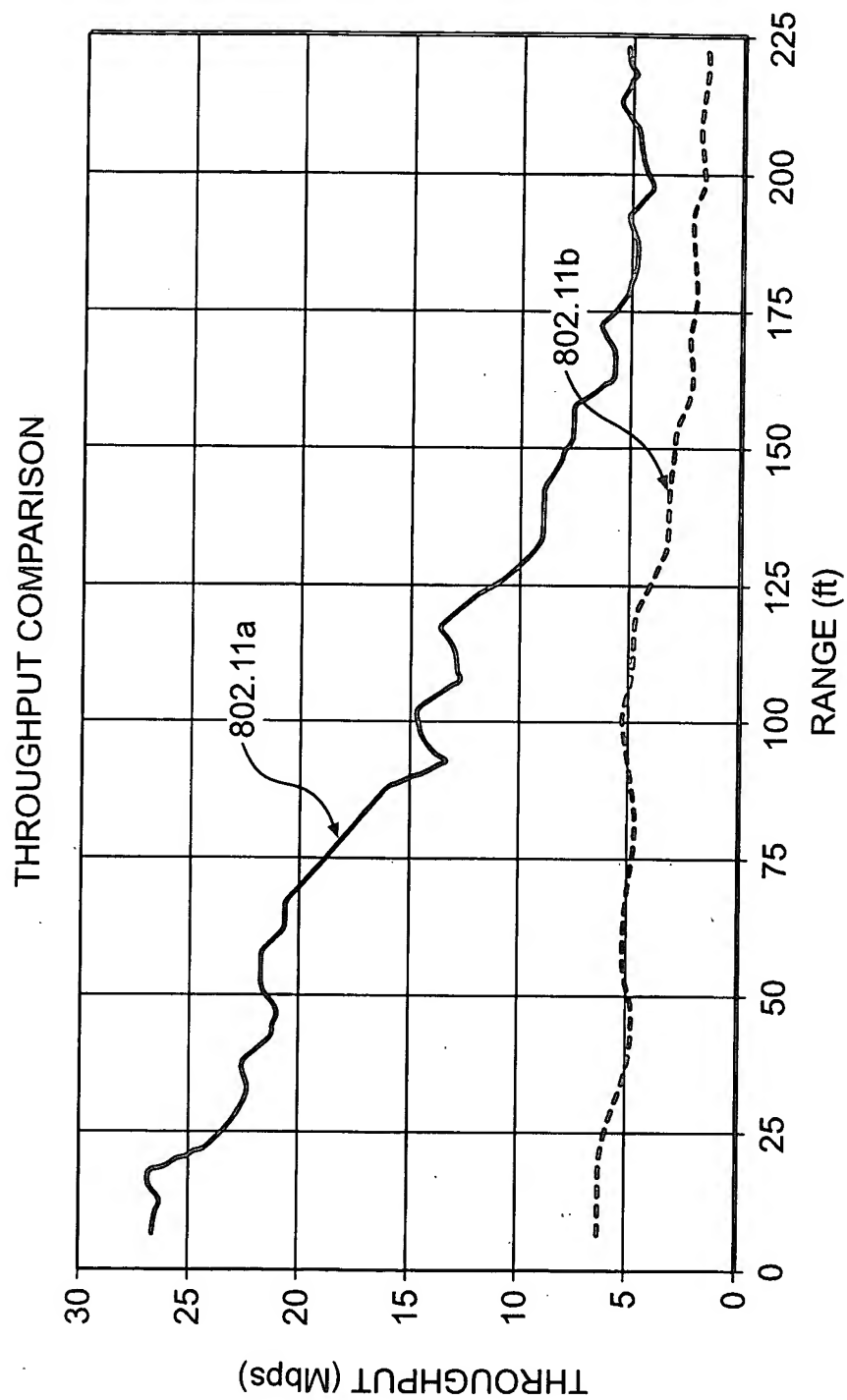


FIG. 15

Industry Market Consortium	Bluetooth	WiMedia	
IEEE Standard	802.15.1	802.15.3	SG3a
Frequency Band	2.4 GHz	2.4 GHz	UWB 2.5 to 10 GHz
Data Rate (Mbps)	Up to 1 Mbps	Up to 55 Mbps	110 Mbps at 10m 200 Mbps at 4m Path to 400 Mbps
BOM Cost to Manufacturer	\$7-\$10 2004 est. \$5	2004 est. \$25	2004 est. \$30 2005 est. \$15
Typical Range	10 meters	10 meters	10 meters
Current Drain (mA)	<30mA	<80mA	<150mA

FIG. 16

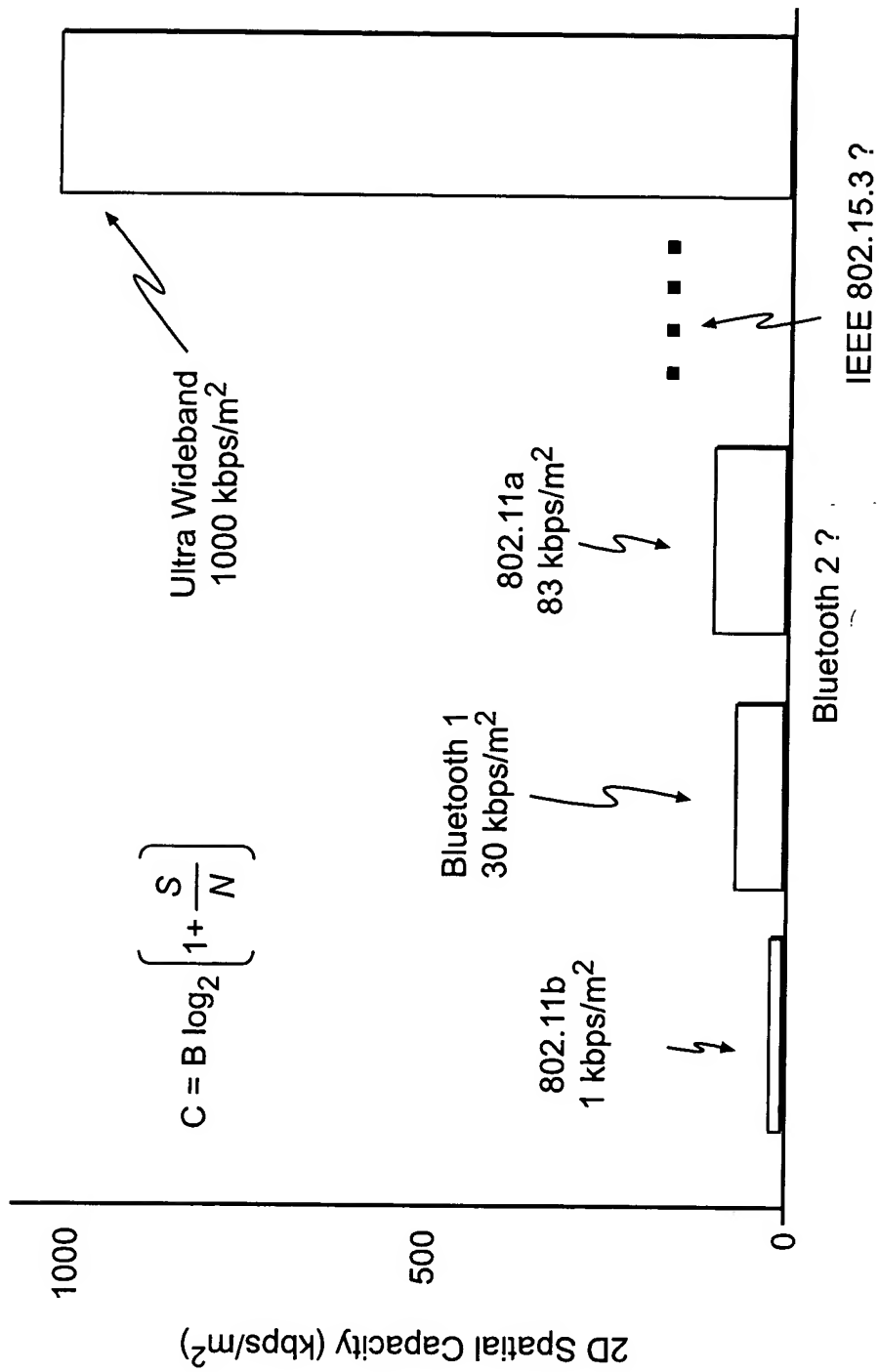


FIG. 17